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Amendment under 37 CFR - Attorney Docket No.: 3464-037

## **LISTING OF CLAIMS**

1-11. Cancelled.

12. (Original) A device for optimal positioning a plurality of speakers of a multispeaker sound system with respect to a reference point, said device comprising:

a base;

an azimuth locating mechanism mounted on said base and rotatable about said center point, said azimuth locating mechanism including a first beam generator adapted to generate a beam of light to indicate an angular position for said speakers; and

a distance indicator adapted to indicate when a distance between said device and a respective speaker within a predetermined range.

- 13. (Original) The device of claim 12 further comprising a plurality of pointers arranged radially around a center point, each pointer indicating a position for one of said speakers.
- 14. (Original) The device of claim 13 further comprising a location indicator adapted to indicate the relative position of said azimuth locating mechanism and said pointers.

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15. (Original) The device of claim 13 wherein said base is a disk shaped plate

with a top surface and wherein said pointers are arranged on said top surface.

16. (Original) The device of claim 14 wherein said base is a disk shaped plate

with a side surface and wherein said pointers are arranged on said side surface.

17. (Original) The device of claim 12 further comprising a second beam

generator adapted to generate a second light beam, wherein when said light beams

impinge on one of said speakers, they indicate the optimal position for that speaker.

18. (Original) The device of claim 17 wherein said beam generators are laser

devices.

19. (Original) The device of claim 18 wherein said beam generators are optical

devices adapted to generate respective images.

20. (Original) The device of claim 17 wherein said azimuth locating mechanism

includes an altitude adjustment bracket, said beam generators being mounted on said

altitude adjustment bracket, said altitude adjustment bracket being movable to direct

beams from said beam generators at speakers disposed in a plane spaced away from a

plane of said base.

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21. (Original) The device of claim 17 wherein said beam generators are

adapted to generate respective beams which, when impinging on one of said speakers,

are offset in a predetermined direction.

22. (Original) The device of claim 12 wherein said distance indicator comprises

an acoustic device.

23 . Original) The device of claim 12 wherein said distance indicator comprises

a radar device.

24. (Original) The device of claim 12 further comprising a lock adapted to

secure said azimuth locating mechanism in one of several predetermined positions with

respect to said base.

25. (Original) A method of locating speakers of a multi-speaker system at

optimal positions with respect to a reference point, said method comprising:

placing a speaker locating device at said reference point, said speaker

locating device including a beam generator rotatable about an axis passing through

said reference point and generating a light beam;

placing a first speaker along a first axis passing through said reference

point;

directing said light beam at said first speaker to define a reference line;

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rotating said beam generator by a predetermined angle with respect to said reference line to define a second axis; and

a placing a second speaker on said second axis.

26. (Original) A method of placing a plurality of speakers at predetermined angles and a common distance from a reference point, said method comprising:

placing a speaker locating device at said reference point, said speaker locating device including an azimuth locating mechanism including a first and a second beam generator, said beam generators being rotatable with respect to each other, said azimuth locating mechanism being rotatable about an axis passing through said reference point;

placing a first speaker in a first position spaced at said common distance from said reference point;

directing said beam generators at said first speaker along a reference axis and rotating them with respect to each other to obtain spots on said speaker having a predetermined spatial relationship;

fixing the relative position of wherein beam generators with respect to each other;

rotating azimuth locating mechanism to a position defined by a second axis at a predetermined angular offset from said reference axis;

placing a second speaker along said second axis with said spots impinging on said second speaker; and

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adjusting the position of said second speaker until said spots are

approximately in said predetermined spatial relationship.

27. (Original) The method of claim 26 wherein said spots are offset along a first

line in said predetermined spatial relationship, said first line being transversal to said

first and second axes.

28. (Original) The method of claim 26 wherein the distance between said first

speaker and said reference point is determined using a separate distance detector.

29. (Original) The method of claim 26 wherein the distance between said first

speaker and said reference point is determined using said speaker locating device.

30. (Original) The method of claim 26 wherein said first and second beam

generators are locked with respect to each other while said azimuth locating

mechanism is rotated.

31 - 41 Cancelled

42. (Original) A speaker aligning device to place a plurality of speakers at an

equal distance from a reference point, wherein said speaker aligning device comprises:

a supporting base having a center to be placed at said reference point;

a first beam generator coupled to said supporting base;

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a second beam generator coupled to said supporting base and rotatable with

respect to said fist beam generator;

a first lock arranged to secure said first beam generator with respect to the

second beam generator while said beam generators are moving with respect to said

base.

43. (Original) The speaker aligning device of claim 42 further comprising a first

bracket joined to said supporting base at the center of said supporting base.

44. (Original) The speaker aligning device of claim 43 further comprising a

second bracket joined to the first bracket to support the second beam generator while

allowing said second beam generator to be rotated about the center of the supporting

base.

45. (Original) The speaker aligning device of claim 43 further comprising a first

locking mechanism to selectively allow the first bracket to move to rotate the first beam

generator about the center of the supporting base and to secure the first beam

generator from movement.

46. (Original) The speaker aligning device of claim 44 further comprising a

second locking mechanism to selectively allow the second bracket to move to rotate the

second beam generator about the center of the supporting base and to secure the

second beam generator from movement.

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47. (Original) The speaker aligning device of claim 42 further comprising an

elevation adjustment mechanism to adjust the first and second beam generators such

that the first and second reference markers selectively are moved from a plane

containing said supporting base.

48. (Original) The speaker aligning device of claim 42 wherein the first bracket

comprises an altitude adjustment mechanism to selectively adjust the first and second

beam generators such that the first and second reference markers are moved from a

reference plane containing the reference point.

49. (Original) The speaker aligning device of claim 42 wherein the first and

second beam generators are selected from a group of reference pointers consisting of

laser devices, radar range detectors, ultrasonic range detectors, and optical projectors.

50. (Original) The speaker aligning device of claim 42 wherein the speakers to

be placed are in a surround sound system.

51. (Original) The speaker aligning device of claim 42 further comprising a

pedestal coupled to said supporting base to maintain the center of the supporting base

at the reference point.

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52. (Original) The speaker aligning device of claim 42 further comprising indicia placed on said supporting base indicating azimuth designations for each speaker.